CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP, Bangalore.

02nd March 2015

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Emergency works and maintenance of ward in ward no. 10, (Doddabommasandra), Vidyaranyapura Sub Division'.**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

DE-10

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TEST REPORT

TEST ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Emergency works and maintenance of ward in ward no. 10,(Doddabommasandra), Vidyaranyapura Sub Division.
Name of the Agency	Sri. R. Narayanaswamy.
Date of Testing	02/03/2015
Specific Gravity	**2.67**
Water Absorption in %	**0.30**

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	**100**	100	**Satisfies the requirement**
40	**97.5**	95-100	
20	**53.6**	30-70	
10	**24.5**	10-35	
4.75	**3.7**	0-5	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

Lab Incharge
Civil Tech Labs

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Emergency works and maintenance of ward in ward no. 10,(Doddabommasandra), Vidyaranyapura Sub Division.
Name of the Agency	Sri. R. Narayanaswamy.
Date of Testing	02/03/2015

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	482	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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Lab Incharge
Civil Tech Labs

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TEST REPORT

TEST ON FINE AGGREGATES Ref:IS:383/2386

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Emergency works and maintenance of ward in ward no. 10,(Doddabommasandra), Vidyaranyapura Sub Division.
Name of the Agency	Sri. R. Narayanaswamy.
Date of Testing	02/03/2015
Specific Gravity	**2.55**

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	**100**	100	100	100	100	II
	4.75	**97.5**	90-100	90-100	90-100	95-100	
	2.36	**83.6**	60-95	75-100	85-100	95-100	
	1.18	**74.2**	30-70	55-90	75-100	90-100	
	0.6	**43.6**	15-34	35-59	60-79	80-100	
	0.3	**27.3**	5-20	8-30	12-40	15-50	
	0.15	**7.8**	0-10	0-10	0-10	0-15	

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TEST REPORT

TESTS ON SOLID BLOCKS

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Emergency works and maintenance of ward in ward no. 10,(Doddabommasandra), Vidyaranyapura Sub Division.
Sample received on	Sri. R. Narayanaswamy.
Date of Testing	02/03/2015
Technical Referance	IS: 2185(Part-I) 2005 (Reaffirmed 2010)
No. of samples tested	8
Grade	C (4.0)

1. COMPRESSIVE STRENGTH

Sl. No.	Nominal Dimension (cms)	Compressive strength (N/mm^2)	Minimum Compressive Strength as per IS: 2185(Part-I) 2005	
			Individual	Avg. of 8 samples
1	40x20x20	4.5	**Minimum Compressive Strength of Individual Units**	**Minimum Average Compressive Strength of Units**
2		4.3		
3		4.3	For Grade C (5.0)- 4.0 N/mm^2 For Grade C (4.0)- 3.2 N/mm^2	For Grade C (5.0)- 5.0 N/mm^2 For Grade C (4.0)- 4.0 N/mm^2
4		4.1		
5		4.3		
6		4.2		
7		4.5		
8		4.1		
Average Compressive strength (N/mm^2)		**4.3**		

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2. WATER ABSORPTION

Sl. No.	Nominal Dimension (cms)	Water Absorption (% by weight)	Average (% by weight)	Requirements as per IS : 2185(Part-I) 2005
1	40x20x20	6.78	**6.66**	When three samples are tested the average water absorption shall not be more than 10% by mass
2		6.52		
3		6.69		

3. BLOCK DENSITY

Sl. No.	Nominal Dimension (cms)	Block Density (Kg/cum)	Average (Kg/cum)	Requirements as per IS: 2185(Part-I) 2005
1	40x20x20	1863.5	**1863.7**	The Solid Concrete blocks used as load bearing units shall have average block density not less than 1800Kg/m^3
2		1865.2		
3		1862.5		

Remarks	Satisfies the Requirements.

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Lab Incharge
Civil Tech Labs

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T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP, Bangalore.

19th March 2015

Dear Sir,

Sub: Emergency works and maintenance of ward in ward no. 10, (Doddabommasandra), Vidyaranyapura Sub Division. Testing of cubes – Reg.

As requested the 7th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE-10

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Emergency works and maintenance of ward in ward no. 10,(Doddabommasandra), Vidyaranyapura Sub Division.
Name of Agency	Sri. R. Narayanaswamy.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (Pavement)	12/03/2015	19/03/2015	7	8.14	324	**14.40**	**14.49**
2					8.15	326	**14.49**	
3					8.16	328	**14.58**	

Note:
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Lab Incharge
Civil Tech Labs

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T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP, Bangalore.

13th March 2015

Dear Sir,

Sub: Emergency works and maintenance of ward in ward no. 10, (Doddabommasandra), Vidyaranyapura Sub Division. Testing of cubes – Reg.

As requested the 07th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE-10

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Emergency works and maintenance of ward in ward no. 10,(Doddabommasandra), Vidyaranyapura Sub Division.
Name of Agency	Sri. R. Narayanaswamy.
Grade of Concrete	M-15
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (Coping)	06/03/2015	13/03/2015	7	8.13	242	**10.76**	**10.99**
2					8.14	248	**11.02**	
3					8.15	252	**11.20**	

Note:

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Lab Incharge
Civil Tech Labs

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